RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _10/648,139_

Source: _OIPE_

Date Processed by STIC: _9/3/2003_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO **REDUCE** ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , EFS Submission User Manual - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry directly to:**
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
         Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service, or other delivery service to:** U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/648,139

DATE: 09/03/2003
TIME: 10:22:16

Input Set : A:\PHKA2.ST25.txt
Output Set: N:\CRF4\09032003\J648139.raw

```
    3 <110> APPLICANT: Armour, Christopher
    4        Castle, John
    5        Garrett-Engele, Philip
    6        Johnson, Jason
    8 <120> TITLE OF INVENTION: ALTERNATIVELY SPLICED ISOFORMS OF HUMAN PHKA2
   10 <130> FILE REFERENCE: RS0204Y
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/648,139
C--> 12 <141> CURRENT FILING DATE: 2003-08-26
   12 <150> PRIOR APPLICATION NUMBER: US 09/408,058    60/408,058
   13 <151> PRIOR FILING DATE: 2002-09-03
   15 <150> PRIOR APPLICATION NUMBER: US 60/431,474
   16 <151> PRIOR FILING DATE: 2002-12-05
   18 <160> NUMBER OF SEQ ID NOS: 34
   20 <170> SOFTWARE: PatentIn version 3.2
```

Does Not Comply
Corrected Diskette Needed

ERRORED SEQUENCES

```
     1616 <210> SEQ ID NO: 21
     1617 <211> LENGTH: 10
     1618 <212> TYPE: PRT
     1619 <213> ORGANISM: Homo sapiens
     1621 <400> SEQUENCE: 21
     1623 Val Gly Met Ala Lys Ser Ile Leu Phe Ser
     1624 1               5                  10
E--> 1625 VGMAKSILFS   delete - do not show one-letter amino acids
     1646 <210> SEQ ID NO: 24
     1647 <211> LENGTH: (26) 28 shown
     1648 <212> TYPE: DNA
     1649 <213> ORGANISM: Homo sapiens
     1651 <400> SEQUENCE: 24
E--> 1652 agagtatcgc ggacattcat ccaattca
                            group of 8
```

(26) 28

VERIFICATION SUMMARY   DATE: 09/03/2003
PATENT APPLICATION: **US/10/648,139**   TIME: 10:22:17

Input Set : **A:\PHKA2.ST25.txt**
Output Set: **N:\CRF4\09032003\J648139.raw**

```
L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1625 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:1625 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1
L:1625 M:252 E: No. of Seq. differs, <211> LENGTH:Input:10 Found:11 SEQ:21
L:1652 M:254 E: No. of Bases conflict, LENGTH:Input:26 Counted:28 SEQ:24
L:1652 M:252 E: No. of Seq. differs, <211> LENGTH:Input:26 Found:28 SEQ:24
```